REMARKS/ARGUMENTS

Claims 1, 8, 10, 16, 17 and 23 are pending in the present application. Claims 1, 8, 10, 16, 17 and 23 have been amended, and Claims 3-7, 12-15 and 19-22 have been cancelled, herewith. Reconsideration of the pending claims is respectfully requested.

I. **35 U.S.C. § 102, Anticipation**

Claims 1, 3, 5-8, 10, 13-17, 19 and 21-23 stand rejected under 35 U.S.C. § 102 as being anticipated by Coha et al. (U.S. Patent No. 6,804,691), hereinafter "Coha". This rejection is respectfully traversed.

Independent Claim 1 has been amended to include features previously recited in dependent Claims 4-7, which are thus being cancelled herewith. Applicants will address the patentability of Claim 1 below in the discussion regarding Claim 4 (whose features are now a part of amended Claim 1).

Applicants traverse the rejection of Claims 3 and 8 for reasons given below with respect to Claim 1 (of which Claims 3 and 8 depend upon).

Applicants traverse the rejection of Claims 10, 13-17, 19 and 21-23 for similar reasons to those given below with respect to Claim 1.

Therefore, the rejection of Claims 1, 3, 5-8, 10, 13-17, 19 and 21-23 under 35 U.S.C. § 102 has been overcome.

II. **35 U.S.C. § 103, Obviousness**

Claims 4, 12 and 20 stand rejected under 35 U.S.C. § 103 as being unpatentable over Coha in view of Sumit Chawla (Fine-tuning Java Garbage Collection Performance', January 1, 2003, pages 1-10), hereinafter "Chawla". This rejection is respectfully traversed.

Claim 1 has been amended to include the features of dependent Claims 4-7, and has been further amended in accordance with the Specification description at page 17, line 11 – page 19, line 10 et seq. Generally speaking, the present claims are directed to techniques for determining the likely effects on program performance resulting from modification of a program, prior to the program being modified to achieve performance improvements, if the effects on program performance are determined to be favorable to performance improvements. It is urged that the combination of references does not teach a computer implemented modeling technique that utilizes actual parameters obtained from Java program execution to deduce changes in performance that will result from modifying the Java computer

application program, where a cost of garbage collection to program performance of a modified version of the Java computer application program is estimated by the computer-implemented method. Instead, per the teachings of the cited combination of references, various parameters fed into a garbage collector simulator are output to a user in graphical form, and these parameters can be manually modified, the simulator re-run, and the parameters are again presented to the user in graphical form where they can again be manually modified and the simulator re-run. Once satisfactory results are obtained through this manual, parameter-adjusting trial-and-error simulation process, the heap parameters are inserted into the Java virtual machine (JVM). In effect, per Claim 1 an automated algorithmic approach to parameter tuning for an application program is provided, whereas per the teachings of the cited reference a manually repeated 'trial-and-error' approach to optimizing garbage collection is provided. This manual approach to tuning the operating environment used by an application program, as taught by Coha, is improved by the automated algorithmic approach provided by the present invention.

Therefore, the rejection of all pending claims has been overcome by the present claim amendment.

III.   Conclusion

It is respectfully urged that the subject application is patentable over the cited references and is now in condition for allowance. The Examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the Examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

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Respectfully submitted,

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